| Ref<br># | Hits | Search Query                                  | DBs   | Default<br>Operator | Plurals | Time Stamp       |
|----------|------|---|---|---------------------|---------|------------------|
| S1       | 730  | (118/723CB,723EB,723VE).ccls.                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2007/01/04 08:05 |
| S2       | 72   | S1 and (molecular cluster) adj beam           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2007/01/04 08:13 |
| S3       | 64   | S2 and (@ad<="20020423"<br>@rlad<="20020423") | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR<br>·             | ON      | 2007/01/05 12:32 |
| S4       | 582  | S1 and (@ad<="20020423"<br>@rlad<="20020423") | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2007/01/04 14:50 |
| S5       | 140  | S4 and (molecular cluster ion) adj<br>beam    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2007/01/04 13:55 |
| S6       | 1    | multi nuclear metal molecular beam apparatus  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ                 | ON      | 2007/01/04 08:15 |
| S7       | 1    | multi nuclear metal molecular beam            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ                 | ON      | 2007/01/04 08:15 |
| S8       |      | multi nuclear metal molecules                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ                 | ON      | 2007/01/04 08:16 |

| S9  |     | nuclear metal molecules  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2007/01/04 08:16 |
|-----|-----|--|---|-----|-----|------------------|
| S10 | 1   | S4 and light adj irradiation   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON  | 2007/01/04 11:16 |
| S11 | 8   | ("4401506"   "5234843"   "5284544"  <br>"5344796"   "5352291"   "5472507"  <br>"5654043").PN. OR ("6258173").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR  | OFF | 2007/01/04 11:07 |
| S12 | 107 | S4 and electric adj field  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON  | 2007/01/04 11:17 |
| S13 | 1   | S4 and (ionized adj electric adj field)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON  | 2007/01/04 11:20 |
| S14 | 0   | S4 and (highly adj excited adj electrons)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON  | 2007/01/04 11:21 |
| S15 |     | S4 and (excited adj electrons)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON  | 2007/01/04 11:21 |
| S16 | 12  | ("4645977"   "4684848"   "4883686"  <br>"5093149"   "5256205"   "5637962").<br>PN. OR ("6028393").URPN.            | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR  | OFF | 2007/01/04 11:26 |
| S17 | 29  | molecular beam apparatus and (ionization or acceleration or convergence or scanning)                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | OFF | 2007/01/04 11:41 |

| C10 |     |  | LIC DCDUD   | 403 | 055 | 2007/04/04 44:22 |
|-----|-----|--|---|-----|-----|------------------|
| S18 | 0   | molecular beam apparatus and ((ionization or acceleration or convergence or scanning) adj means)     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | OFF | 2007/01/04 11:28 |
| S19 | 29  | molecular beam apparatus and (vaporization or ionization or acceleration or convergence or scanning) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | OFF | 2007/01/04 11:42 |
| S20 | 0   | S19 not S17  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | OFF | 2007/01/04 11:41 |
| S21 | 4   | S5 and (solvent mist)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON  | 2007/01/04 14:07 |
| S22 | 0   | metal molecule disssolved in solvent   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2007/01/04 14:08 |
| S23 | 469 | metal molecule and solvent   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2007/01/04 14:08 |
| S24 | 0   | multi metal molecule same solvent  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2007/01/04 14:09 |
| S25 | 94  | metal molecule same solvent  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2007/01/04 14:09 |

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|-----|--|--|---|------|----|--------------------|
| S26 | 3  | S25 and mist                                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ  | ON | 2007/01/04 14:43   |
| S27 | 698  | 250/251.ccls.                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ  | ON | 2007/01/04 14:47   |
| S28 | 57   | S27 and electric charge                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ  | ON | 2007/01/04 14:48   |
| S29 | 0  | S28 and (metal molecule)                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ  | ON | 2007/01/04 14:47   |
| S30 | 0  | S28 and (mist solvent)                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AD.J | ON | 2007/01/04 14:48   |
| S31 | 242  | S27 and (electric (charge or field))           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ  | ON | 2007/01/04 14:49   |
| S32 | - 179  | S31 and (@ad<="20020423"<br>@rlad<="20020423") | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | . 2007/01/04 15:59 |
| S33 | 50   | 118/726.ccls. and solvent and plasma           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/01/04 15:51   |

| S34 | 37  | S33 and (@ad<="20020423"<br>@rlad<="20020423")  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON  | 2007/01/05 11:37 |
|-----|-----|---|---|-----|-----|------------------|
| S35 | 730 | (118/723CB,723EB,723VE).ccls.                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON  | 2007/01/04 16:47 |
| S36 | 582 | S35 and (@ad<="20020423"<br>@rlad<="20020423")  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON  | 2007/01/04 16:47 |
| S37 | 102 | S36 and vaporiz\$5 and ioniz\$5                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | OFF | 2007/01/04 16:52 |
| S38 | 62  | S36 and (vaporiz\$5 same ioniz\$5)              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | OFF | 2007/01/04 16:58 |
| S39 | 20  | S36 and (vaporiz\$5 same ioniz\$5) and ion beam | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | OFF | 2007/01/04 17:06 |
| S40 | 15  | S36 and (vaporiz\$5 with ioniz\$5) and ion beam | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | OFF | 2007/01/04 17:13 |
| S43 | 4   | "7107929"                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | OFF | 2007/01/05 08:26 |

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|-----|-------------|---------------|---|-------------|-------|------------------|
| S44 | 47          | "5284544"     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR          | OFF . | 2007/01/05 09:14 |
| S45 | 0           | 2002/0132063  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR          | OFF   | 2007/01/05 09:14 |
| S46 | 2           | "20020132063" | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR          | OFF   | 2007/01/05 09:58 |
| S47 | . 4         | "6805916"     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR          | OFF   | 2007/01/05 10:20 |
| S48 | 0           | 2006/0191481  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR .        | OFF   | 2007/01/05 10:20 |
| S49 | 2           | "20060191481" | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR          | OFF   | 2007/01/05 10:20 |
| S50 | 4           | "6805916"     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR          | ON    | 2007/01/05 11:37 |

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|-----|----|---|---|----|-----|------------------|
| S51 | 51 | (US-20060191481-\$ or US-20020029746-\$ or US-20020003086-\$ or US-20020051846-\$ or US-20020162508-\$ or US-20020068132-\$ or US-20060159843-\$).did. or (US-5858450-\$ or US-6032611-\$ or US-6507698-\$ or US-6629508-\$ or US-6983718-\$ or US-5451260-\$ or US-6580053-\$ or US-5970811-\$ or US-5897844-\$ or US-5352291-\$ or US-5656092-\$ or US-6805916-\$ or US-4670241-\$ or US-6319326-\$ or US-7014889-\$ or US-6319326-\$ or US-6028393-\$ or US-6033484-\$ or US-6306217-\$ or US-5474611-\$ or US-6306217-\$ or US-5776253-\$ or US-5354445-\$ or US-5776253-\$ or US-4676194-\$ or US-5776253-\$ or US-4882023-\$ or US-4839377-\$ or US-4882033-\$ or US-4639377-\$ or US-4882636-\$ or US-4639377-\$ or US-4882636-\$ or US-4639377-\$ or US-4882636-\$ or US-7107929-\$ or US-4511593-\$ or US-4800100-\$ or US-5656141-\$ or US-5855683-\$ or US-4039416-\$ or US-4981568-\$).did. | US-PGPUB;<br>USPAT  | OR | OFF | 2007/01/05 12:32 |
| S52 | 1  | S51 and convergence   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/01/05 11:58 |
| S53 | 15 | S51 and scan\$4   | US-PGPUB;<br>USPAT  | OR | OFF | 2007/01/05 12:32 |
| S54 | 15 | S53 and (@ad<="20020423"<br>@rlad<="20020423")  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/01/05 12:33 |